

# VINA NAMIRA ANDRINA ANDIDI

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Jakarta, Indonesia | Portfolio: <https://vinanamira.com/>

## SUMMARY

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Backend Developer experienced in building scalable REST APIs and microservices using Go (Fiber), Node.js, and Laravel. Comfortable working with PostgreSQL, MySQL, MongoDB, Redis, and Kafka, integrating AI APIs (OpenAI, Gemini), and consuming real-time data via MQTT. Experience delivering real-world systems used by actual users.

## EDUCATION

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### Binus University Online

Nov 2025 – Present

*Bachelor's Degree (S1) Extension in Computer Science*

### Telkom University

Aug 2022 – Jul 2025

*Associate's Degree (D3) in Information Systems*

*(GPA: 3.77/4.00)*

## PROJECTS

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### Nutrisafe | Go, Fiber, PostgreSQL, GORM

- Built a role-based **REST API in Go (Fiber v2)** with **JWT-based authentication**, serving **3 user roles** across **30+ endpoints** for school management, food delivery reporting, and registration approval.
- Integrated a teammate's **ML model** with the **Gemini API** into a **single backend pipeline**, combining both outputs into one real-time food-scanning analysis (calories, macronutrients, detected ingredients) for school meal monitoring.
- Built an automated credential-delivery system via **Google SMTP** for sending school, SPPG, and public account credentials immediately upon creation, and student credentials via a **background cron job (every 5 minutes)** that auto-generates them from enrollment data.

### Pijar Sekolah | Node.js, MongoDB, Kafka

- **Maintained** and extended **4 CBT microservices** (exam question, scheduling, scoring, and task) by enhancing **14+ existing REST API endpoints** with additional data fields, sorting capabilities, and exam usage & summary APIs, with **unit testing** for each change.
- Developed scheduled analytics **feature** for the **Summary Landing Page**, building **background cron jobs**, **MongoDB event handlers**, and **4 REST API endpoints** in a dedicated **worker service** to aggregate and expose platform-wide counters (**2M+ students, 9.900+ schools, 100.000+ teachers**), supported by **database migration scripts**.
- Implemented a **customer onboarding flow** across **2 microservices**, building **5 REST API endpoints** for customer school, admin, and Account Manager (AM) detail retrieval and updates, with class data integration and **UUID-based identification** in the worker service.

### KawalTani Chatbot | Laravel, MySQL, OpenAI

- Developed an **OpenAI-powered chatbot** for an IoT-based agricultural monitoring system, used by **3 BPP extension officers** to query farming insights, dashboard metrics, and historical monitoring data.
- Built and documented **5 REST API endpoints** for chat creation, retrieval, deletion, and title updates.
- Implemented backend **text-mining logic** to detect date references in user queries and retrieve relevant monitoring records directly from the database.
- Compiled **230 agriculture-specific Q&A pairs** to improve chatbot response relevance, and integrated the feature into a production web system with response times of **3-5 seconds**.

### Hematrik | Node.js, MySQL

- Built and documented **8 REST API endpoints** for an IoT-based energy monitoring system tracking **3 devices** (AC, lights, and dispenser).
- Integrated backend services with **MQTT topics** to process real-time device data, identifying devices via internal and MQTT device codes.
- Implemented a **cron-job notification feature** sending alerts at **5 PM** for device activity outside working hours, and supported **deployment** to a real-world setting (a lecturer room at Universitas Mandiri Subang).

### Alitnest | Node.js, MongoDB, OpenAI

- Built and documented **10+ REST API endpoints** for a healthy-lifestyle prototype app featuring AI-based food scanning, workout schedules, health articles, and nutrition consultations.
- Integrated the **OpenAI API** into **Nutriwise**, a food-scanning feature that returns nutritional information from food images.
- Implemented **CI/CD with GitHub Actions** to automate deployment to a **VPS** for internal mobile APK testing.

## EXPERIENCE

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**PT. Telekomunikasi Indonesia – Pijar Indonesia, Jakarta**

**Nov 2025 – May 2026**

*Backend Developer Intern*

- Worked on **5+ backlog items and feature updates** across Pijar's web products in microservices-based architecture.
- Developed and modified **RESTful APIs** in a **Node.js microservices** environment (with **MongoDB, Redis, and Kafka**), including **adding Kafka event publishing** to an existing service.
- Worked in a **Scrum/Agile** team using **Taiga** for backlog tracking and **GitLab** for version control.
- Performed **unit testing**, resolved issues based on **QA test cases**, and collaborated with **QA and Frontend** developers during implementation.

**Center of Excellence (CoE) Smart City, Telkom University**

**Jul 2024 – Jul 2025**

*Junior Backend Developer Intern*

- Built and maintained backend services from scratch for two web-based systems, **KawalTani Chatbot** (Laravel) and **Hematrik** (Node.js), as the primary backend developer.
- Owned end-to-end backend development across both projects — including **REST API development**, third-party integrations, **debugging**, **API testing**, **technical documentation**, **user testing**, and **deployment support**.

**School of Applied Science, Telkom University**

**Sep – Dec 2024**

*Teaching Assistant of Web Programming*

- Supported **2 practicum classes** in the Diploma of Information Systems program, teaching **web programming** through live coding demonstrations and guided practice.
- Taught **native PHP** across multiple sessions and introduced **basic Laravel** concepts for foundational backend development.
- Guided students in using **MySQL** (via **XAMPP**) for local database setup and web application integration.

## ORGANIZATIONAL EXPERIENCE

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**Chevalier Lab SAS – Research and Development**

**Sep 2023 – Sep 2024**

- Led the **"Open Mind"** event as **Head of Event**, attracting **190+ Study Group registrants**.
- Coordinated **lab events, workshops, and internal technical programs** with the R&D team, managing logistics from planning through execution.

## ACHIEVEMENTS

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- **1st Place in Mobile Programming Competition** – CR YOUTH 2024, Telkom University
- **2nd Place UI/UX on National Level** – Vocational of Champions 2024, Universitas Sebelas Maret (UNS)

## CERTIFICATIONS

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- **Belajar Back-End Pemula dengan Python** – Dicoding Indonesia **Jun 2026 – Aug 2029**
- **JavaScript Programming Basics** – Dicoding Indonesia **Aug 2024 – Aug 2027**
- **Cloud Practitioner Essentials (AWS Fundamentals)** – Dicoding Indonesia **Aug 2024 – Aug 2027**

## SKILLS

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**HARD SKILL:** Go, Fiber, Node.js, Express.js, Laravel, PHP, RESTful API, Microservices, PostgreSQL, MySQL, MongoDB, GORM, Redis, Kafka, MQTT, OpenAI API, Gemini API, Git, GitLab, GitHub Actions, Postman, Unit Testing, CI/CD, VPS Deployment

**SOFT SKILL:** Problem Solving, Debugging, Communication, Team Collaboration, Adaptability, Time Management, Ownership, Mentoring

**LANGUAGE:** Indonesian, English